

INFORMATION TECHNOLOGY EDUCATION

PROVIDING THE FOUNDATION FOR UTAH'S HIGH-TECH WORKFORCE

Our mission:

Information Technology (IT) Education prepares students for employment and/or continuing education opportunities in the growing field of Information Technology in partnership with industry.

This is accomplished through technical instruction in the classroom, experiential education in the laboratory, student internships, and industry/skill certification. IT education programs also encourage and promote teamwork, lifelong learning, hands-on experience, ethical behavior, and communication skills.

CAREERS IN INFORMATION TECHNOLOGY

IT careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. In addition to careers in the IT industry, IT careers are available in every sector of the economy—from Financial Services to Medical Services, Business to Engineering and Environmental Services. Careers in IT include, but are not limited to:

- **Information Support and Services:** Technical Writer, Technical Support, Enterprise System Analyst, Database Developer, Database Administrator
- **Interactive Media:** Multimedia Developer, Web Developer, Web Administrator, 3D Animator
- **Network Systems:** Network Engineer, Network Administrator, Telecommunications Technician
- **Programming/Software Engineering:** Computer Programmer, Game Developer, Software Engineer

STUDENT LEADERSHIP ORGANIZATIONS

IT students who want to participate in a leadership organization choose between the following organizations, depending on what is available at their school:

- Future Business Leaders of America (FBLA)
- SkillsUSA
- Technology Student Association (TSA)

Our vision is to see that every student interested in an IT career receives the academic knowledge and foundational technical skills needed to be successful in the IT career field of his or her choice and post-secondary education.

AREAS OF STUDY:

Agriculture
Business
Economics, Entrepreneurship,
& Financial Literacy
Family & Consumer Sciences
Health Science & Technology
Information Technology
Marketing
Technology & Engineering
Trade & Technical



NATIONAL RECOGNITION

The Information Technology Education program has several state and national competitions in which students can participate. They include:

- ITT Robotics Competition
- LocoMotion International Film Festival
- TestOut Challenge
- U of U and BYU High School Programming Contests
- Utah Multimedia Arts Festival

In two years, five Utah high school students were recognized nationally for their excellence in computer skills and technology at the national TestOut Challenge.

Utah's IT Education program received the 2002 Partnership Award for Excellence from the Computer Training Industry Association (CompTIA) for its work in the development of the TestOut Challenge.

Utah's IT Education program is also a charter member of the U.S. Department of Education's Information Technology Career Cluster Consortium.

CAREER PREPARATION/ECONOMIC DEVELOPMENT

Each program in Information Technology Education is a sequence of courses that prepares individuals to apply technical knowledge and skills necessary to enter their chosen field of study and increase their earning potential while still in high school, and later, as they pursue post-secondary education.

Enrollment in Utah IT programs has grown from 8,050 students in 1999 to over 11,600 students in 2004. During this time period, 3,410 IT Education competency skill certificates were issued to students representing substantial skill attainment at 80% or above. Also, during 1999-2004, 748 IT industry certifications were earned. Performance must be demonstrated in class as part of the skill certificate process. Preparation for post-secondary education and concurrent enrollment articulation is also a high priority of IT programs.

COURSES OFFERED

- **Introduction to Information Technology**
- **Information Support & Services**
A+ (CompTIA)
Database Development (Oracle)
Linux (CompTIA/Novell)
- **Interactive Media**
Multimedia I & II
Web Development (iNet+ & CIW)
- **Network Systems**
Certified Novell Administrator (CNA)
Cisco Certified Networking Associate (CCNA)
Microsoft Certified Professional (MCP)
Network+ (CompTIA)
Security (CompTIA)
- **Programming and Software Engineering**
Computer Programming I & II (C++/Java/VB)

STATE AND LOCAL PARTNERSHIPS

Adobe	Macromedia®
Allen Academy of E-Learning	Micron®
Cisco®	Microsoft®
CompTIA™	Novell®
HumanXtensions®	TestOut™
Intel®	Vérité
Utah Information Technology Association (UITA)	
Utah Women in Technology (UWIT)	

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